

General Disclaimer

One or more of the Following Statements may affect this Document

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

CalESCO

CALIFORNIA EARTH SCIENCE CORPORATION

E7.6-10.1 1.1.
CR-146044

1318 SECOND STREET, SUITE 27 SANTA MONICA, CALIFORNIA 90401 TELEPHONE 395-4528, AREA CODE 213

"Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof."

December 12, 1975

Contract NAS 2-7698

MONTHLY PROGRESS REPORT NO. 30

November 1975

Fault Tectonics and Earthquake Hazards in the Peninsular Ranges,
Southern California, EREP Investigation 463

NASA-Lyndon B. Johnson Space Center
Technical Support Procurement Branch
Houston, Texas 77058

Attention: Mrs. Ruth Elder, Mail Stop BB631 (B9)

Dear Mrs. Elder:

California Earth Science Corporation (CalESCO) is pleased to submit its 30th
Monthly Progress Report on the application of Skylab imagery to analysis of
fault tectonics and earthquake hazards in the Peninsular Ranges, Southern
California under NASA Contract No. NAS 2-7698.

Summary Outlook

All of the proposed research has been accomplished and the final report is
in preparation. The details of the makeup of the final report are described
in our letter to the technical monitor dated October 15, 1975.

Significant Progress

1. Work was continued on reports describing our analysis of S192 images and
the enhancement characteristics of pseudocolor transformations, and on
modifications to the draft final report on the Peninsular Ranges and
Salton Trough suggested by the Technical Officer. These reports are
essentially complete except for preparation of illustrations and final
editing.
2. A paper describing the results of our investigations of linears in the
Peninsular Ranges entitled "Faulting in basement terrane, San Diego County,
California", was published in Ross, A. and R. J. Dowlen (eds.) Studies
on the geology of Camp Pendleton and western San Diego County, California,
San Diego Association of Geologists, 1975, p. 51-55. A copy of this
publication is being sent to the technical monitor under separate cover.

(E76-101111) FAULT TECTONICS AND EARTHQUAKE
HAZARDS IN THE PENINSULAR RANGES, SOUTHERN
CALIFORNIA Monthly Progress Report, NOV.
1975 (California Earth Science Corp., Santa
Monica.) 2 p HC \$3.50

N76-16534

CSCI 086 G3/43

Unclas
00111

3. Communication was received from Charles W. Jennings, Senior Geologist, California Division of Mines and Geology and chief compiler of the "Fault Map of California", thanking us for technical reports 74-5, 75-1 and 75-2, and stating that future editions of the fault map would utilize this information.
4. Dr. James Slossen, Chief Geologist, California Division of Mines and Geology indicated in an oral conversation that CalESCO Technical Report 75-2 would be appropriate for publication as a Special Report of the California Division of Mines and Geology.

Expected Accomplishments, Current Month

Work will continue on the final report described above.

Travel Summary and Plans

No travel is planned during December.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORP.

Paul M. Merifield
Paul M. Merifield
Principal Investigator

cc: NASA Scientific and Technical
Information Facility
P.O. Box 8757
Baltimore/Washington
International Airport, Maryland 21240
NASA-Lyndon B. Johnson Space Center
Earth Observations Division
Attn: Dr. David Amsbury, Mail Code TF6
Houston, TX 77058
NASA-Lyndon B. Johnson Space Center
Earth Resources Program Office
Attn: Robert K. Stewart, Mail Code HD
Houston, TX 77058